



Company Profile

**Shaping Excellence From Timeless
Experience**



WE ARE A TEAM OF

MULTI-DISCIPLINARY ENGINEERS

SEFT was founded by four professionals with an exceptional experience on Marine Engineering, including ship design & engineering solutions, shipbuilding, power & control systems, structure and outfitting.

SEFT has a wide serving field among ship design and every single design criteria included. We provide services from Concept Design and Feasibility Working to Main Design, from Detailed Design to Technical Consultancy.

Co-Founders

**Semih ZORLU**

CEO-Chief Executive Officer

**Ferdi ÇİÇEK**

COO-Chief Operating Officer

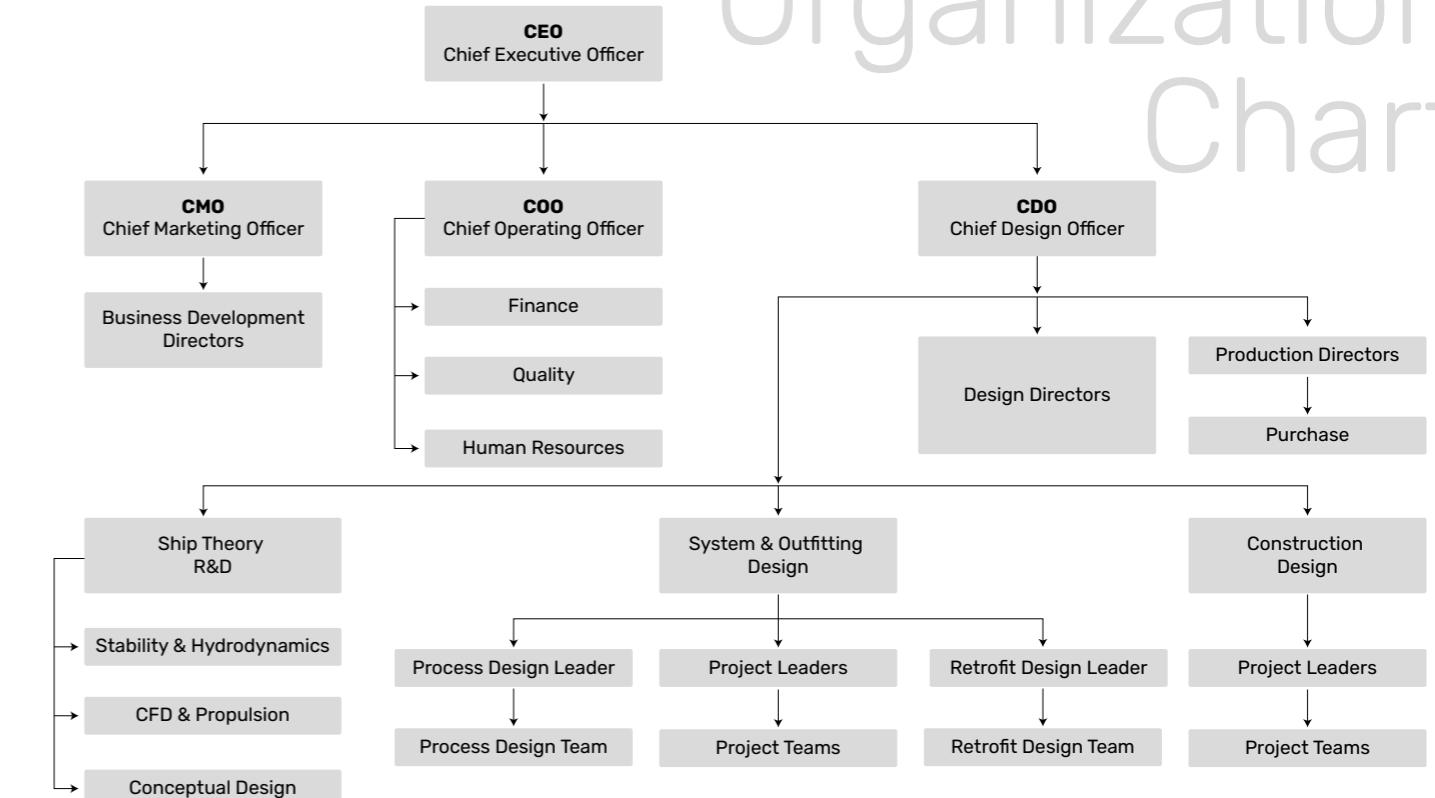
**Emrah SAĞIROĞLU**

CDO-Chief Design Officer

**Taylan KARAKAYA**

CMO-Chief Marketing Officer

Organization Chart





SEFT has extremely qualified and well experienced engineers and naval architects who can be organized as a well-coordinated team and find innovative solutions to customer's demands.

WE ARE SEFT, YOUR RELIABLE ENGINEERING PARTNER

SEFT, is an engineering company that offers engineering and consulting services internationally. SEFT works in different business lines; Maritime & Ship Building, Industrial Constructions, Defence Industry, Power Generation Projects. SEFT head office and SEFT engineering office are located in Technology Development Zone in Istanbul.

SEFT has successfully executed over 500 projects in different disciplines with the help of over 250.000 Engineering man x hours per year.

SOLUTION PARTNER

SEFT approach to our clients is to serve proactively as a solution partner not as a passive subcontractor.



TRUST AND EXPERTISE

SEFT prioritizes long-term customer relationships, leveraging expertise and trust through extensive experience and smart partnerships



ENVIRONMENT FRIENDLY DESIGNS

SEFT follows up latest regulations and new technologies and adopts to the designs.



TURNKEY SOLUTIONS under one UMBRELLA

SEFT is capable to cover all engineering stages of the projects starting from the dream/idea to the final product.



ENGINEERING 1st

SEFT main philosophy is to keep the "engineering" discipline in highest priority.



QUALITY and QUANTITY of the ENGINEERING TEAM

SEFT has an extensive number of specialist and engineers to cover high level engineering services for projects.



ADVANCED ENGINEERING STUDIES

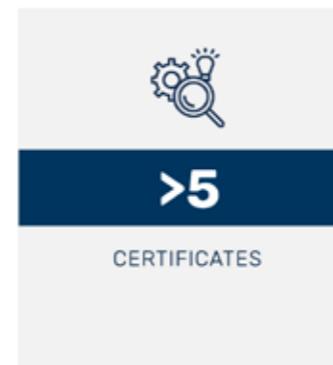
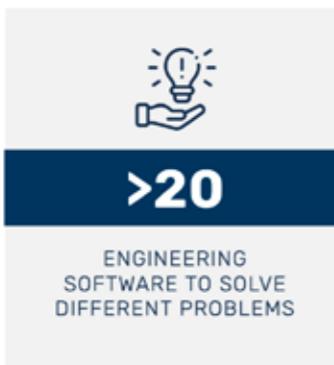
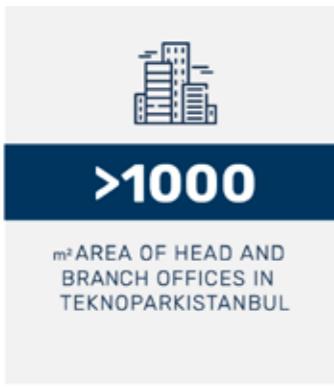
SEFT is capable of Computational Fluid Dynamics (CFD) and Finite Element (FE) analysis to solve complex engineering problems.



PROCUREMENT & PRODUCTION CAPABILITY

SEFT is ready to supply key materials for the projects and produce specially designed & unique constructions.

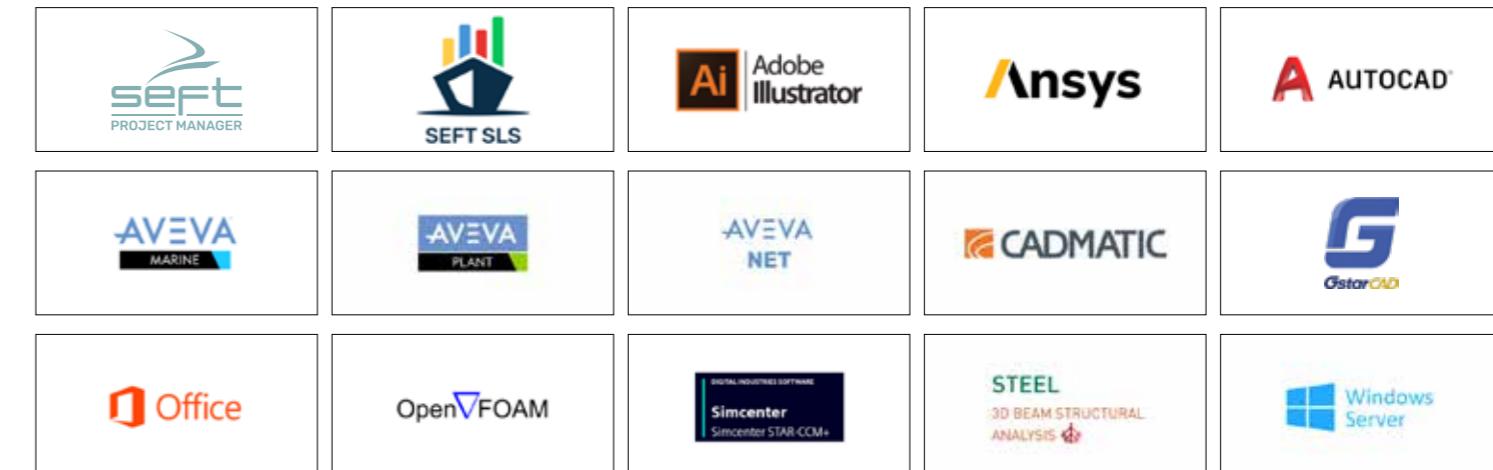
SEFT in NUMBERS



Certificate



Software



01



MARITIME & SHIP BUILDING

R&D, Contract-Initial-Basic-Detailed Ship Design, Retrofit Design, Advanced Engineering Analysis, Project Management and Consultancy services for new building and existing ships in Marine&Offshore industries.

02



RETROFIT PROJECTS & INDUSTRIAL PROJECTS

Construction-Process-Detailed-Production Design, Engineering, 3D scanning and creating digital twin services for Industrial Projects.

03



DEFENCE INDUSTRY

Defining concept of Operation and creating Concept designs, Initial-Basic-Detailed Ship Design, Advanced Engineering Analysis, Project Management and Consultancy, test&trial assistance services for Naval Platforms.

04



POWERSHIP PROJECTS

Construction design, process design, integration of power distribution systems and production level design solutions for sailing power plants.



01

MARITIME & SHIP BUILDING

R&D, Contract-Initial-Basic-Detailed Ship Design, Retrofit Design, Advanced Engineering Analysis, Project Management and Consultancy services for new building and existing ships in Marine&Offshore industries.

SEFT SPECIALIZES IN

New build design and basic engineering for a wide range of ship types including: General cargo vessels, chemical tankers, tugs, workboats and vessels for the offshore, seismic, research vessels, sailing powerships, combatant and auxiliary naval ships, passenger transport and fishing boats.

ALL STAGES OF SHIP DESIGN UNDER ONE UMBRELLA

The scope of design & engineering services for new vessels is divided into the following stages: concept design, tender/contract design, basic design, and coordination/integration of detailed design.

From building specification to class / authority approved design packages and beyond, engineering with leading fundamentals is a core business at SEFT ENGINEERING. With experienced and professional in-house capabilities of all engineering disciplines and state-of-the-art software/hardware packages, we take care of well-grounded and sustainable designs. Many different types of vessels on delivery record prove a broad foundation. Every project is different and so is the process at SEFT ENGINEERING - flexible in cooperation and scope. But for us commitment is not just a statement: it is key for success.



MAIN SERVICES

We offer a fully tailored and comprehensive solution to your engineering needs by providing the following services:

- Naval Architecture
- Mechanical & Marine Engineering
- Marine HVAC Design
- 2D & 3D Visualization
- Energy Optimization
- Marine Transportation
- Engineering Simulation & Analysis
- Project Management

in all ranges from a new vessel design to refit or conversion project.



INNOVATIVE SHIP DESIGNS

SEFT has earned a national reputation for innovative, successful designs for a wide range of ship. In subsequent years, the company has been leader in creating highly qualified naval ships and special-purpose vessels which innovative aspect of powerful.

Our Design Reference Includes Special Project Design From Small Fishing Boats To Chemical Tankers, From Naval Vessels To Commercial Vessels. First Goal Of Our Business Philosophy Create Unique Designs Which Meet Specific Customer Requests And Exceeding The Expectations.

Second Base Goal, Produce Design Has The Highest Details Can Be Possible And Details Which Provide Manufacturing Easily. Especially Last Years SEFT Increased

Competitiveness At National And International Market With Experience In Detail & Production Design.

Third Base Goal Of Our Work Philosophy Is Long-Term Customer Relationship. This Together With Our Extensive Experience And Capabilities Supported With Smart Partnering Drives Us To Serve Our Customers Better.

CONCEPTUAL DESIGN & TENDER / CONTRACT DESIGN

We create tailor made designs from feasibility study via tendering to contract specification. On the other hand, we serve as independent consultant covering contract negotiations, review of design specifications, planning and cost evaluation for a vessel construction or refit contract.

We create effective and market-leading designs based on the large range of designs - from cargo vessels to naval vessel, from tugs to yachts - that ensures a reliable basis for comprehensive inventive and innovative new designs.

BASIC DESIGN

The design is optimized based on the client's needs and the requirements of the classification society and flag state. Calculations and drawings are fully developed into a design package for class approval. Close coordination with the shipyard is an integral part of this design stage to ensure the client's objectives will be realized. While the deliverables for this design phase are highly customizable, they typically include the following:

Technical Documentation & Plan Approvals

- General Design
- Hull Structure
- Outfitting & Equipment
- Accommodation
- HVAC & Piping Systems
- Propulsion & Machinery
- Electric & Automation
- Build Specification

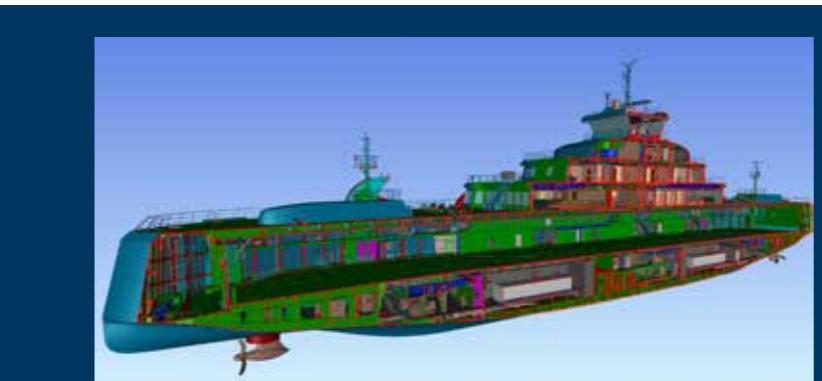
Project & Contract Management

Sea Trials & Delivery

Site Supervision & Inspection/Technical Support

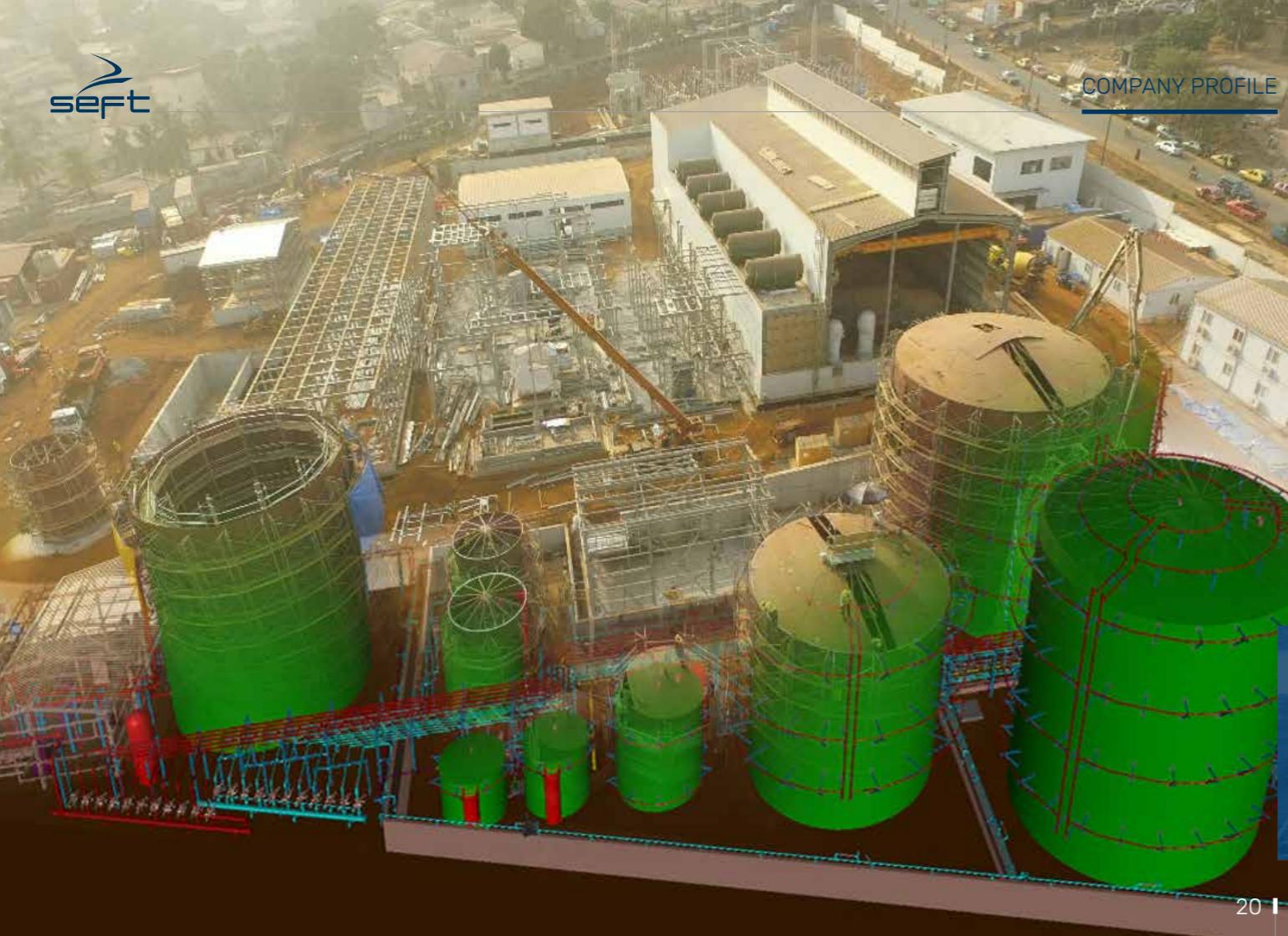
DETAILED DESIGN

In order to avoid the afore-mentioned problems, SEFT Engineering employs a novel approach of creating both basic and functional design. The approach, which has become the standard way of working at SEFT Engineering, uses and relies on principle solutions designed by Main/Conceptual Design Team and further development during the 3D modeling processes by Detail Design Team.



Thanks to this approach, SEFT engineers can provide fast and reliable design solutions for cargo vessels, naval vessels, workboats, ferries, mega yachts and offshore vessels. Even though structural 2D plans may be good, the 3D model takes your design to the next level. It allows us to set priorities and take control of the design process from the very beginning. Any issues that may arise can be solved and excluded during early basic 3D design. If you use only a 2D approach, such issues may only pop up during detail design, or even worse, during production. This in turn influences resources, materials and planning.





02

RETROFIT PROJECTS & INDUSTRIAL PROJECTS

Construction-Process-Detailed-Production Design, Engineering, 3D scanning and creating digital twin services for Retrofit and Industrial Projects.

■ RETROFIT PROJECTS REFITS & CONVERSION PROJECTS



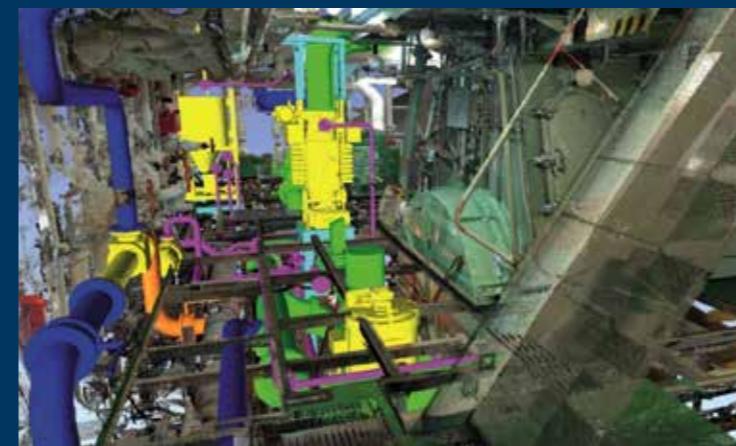
Strategically located in the middle of Europe and Asia, our experienced teams provide a full range of consultancy, naval architecture and marine engineering services including vessel refit and conversion, structural and stability investigations.



Ship conversions are an efficient and cost-effective mean of getting more out of existing ships, but only if done right. SEFT has extensive experience in conversion projects and completed more than 100 such projects such as dimension/capacity changes, life extension, re-purpose, change of regulations, accommodation refresh and energy saving.



It is much easier to change drawings on paper than reworking. Therefore we work closely with the owners and the shipyards at the beginning to define the requirements and boundaries better.



Conversion Projects

- Feasibility Study
- Preparation of Conceptual Design and Detail Design
- Onboard Survey & 3D Scanning
- Structural Analysis & Calculations
- Construction Design
- System Calculations
- Piping Design
- Ship Theory Calculations
- Design Specifications (Standarts, Details etc)
- 3D Engineering Solutions & Detailed Design
- 2D Drawings (Class dwg, Layout, Isometric, Workshop, Nesting)

INDUSTRIAL PROJECTS

SEFT Engineering specializes in ship design and engineering services, providing comprehensive industrial projects solutions.

Structural Calculations

Our professional team utilizes the latest technologies to perform structural analyses and provide tailored solutions that meet our clients' needs. We are committed to delivering customized and secure structures.

Structural Analysis and Foundation Design

Our expert team perform advanced analyses to ensure the durability and safety of your projects. Our tailored foundation designs enable you to plan your projects effectively.

Pipe System Calculations and Modeling

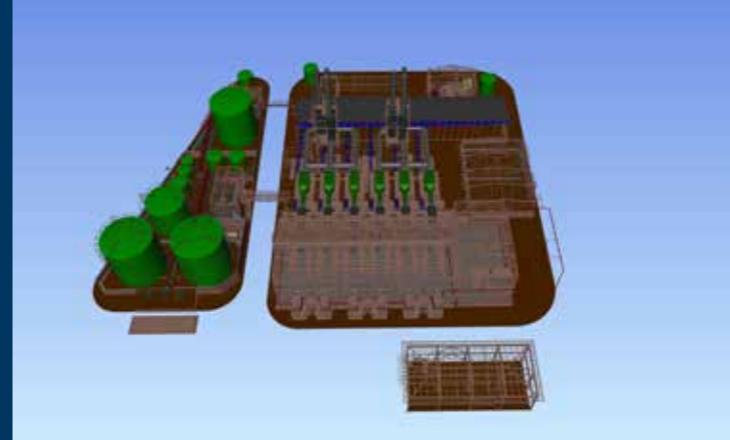
Our experienced engineers work diligently to optimize energy efficiency by designing efficient systems. Our clients benefit from reliable

and efficient pipe circuits that enhance their operations.

Generation of Fabrication Drawings

Our precise and accurate drawings enhance your understanding and facilitate smooth implementation. Clients rely on our professional drawings to complete their projects faster and more efficiently.

SEFT Engineering is a leading service provider in industrial projects, specializing in ship design and engineering. We continuously strive to provide excellent service and ensure utmost client satisfaction by staying up-to-date with the latest industry innovations.



Our engineering services are built on years of experience and the expertise to identify and design the unique solutions that match our client's needs.

In addition to providing engineering and economic solutions, we solve any unexpected problems caused by the specifics of the facility, its location and other factors in Industrial Projects. Our wide range of engineering services and expertise in the industry, our engineering ability to understand operational challenges and apply the right solutions from a range of technical disciplines set us apart from other ship design and engineering companies.



Module Design

SEFT Engineering uses AVEVA PDMS™ and AVEVA E3D for its 3D plant designs to improve the speed, quality, and profitability of its projects and take intelligent 3D design to the next level.



03

DEFENCE INDUSTRY

Defining concept of Operation and creating Concept designs,
Initial-Basic-Detailed Ship Design, Advanced Engineering Analysis,
Project Management and Consultancy, test&trial assistance services
for Naval Platforms.



■ NAVAL SHIP DESIGN



Extensive Design Portfolio

SEFT engineers have the capability to undertake the complete design and assurance of new naval platforms from Combatant Vessels to Auxiliary and from Coast Guard Vessels to Landing Ships.



Design Capability

SEFT serves the entire spectrum of engineering and consultancy to tackle the defense and security markets' most complex engineering and programme challenges.



Trusted Partner

SEFT is the trusted partner for the Navies, Yards and defense companies focusing on delivering the best design, technology, and strategic advice.



Innovation

SEFT delivers tailored and efficient Naval Vessel Designs focusing on the concept of operation to enable best performance for the Navy.

We take pride in going beyond ordinary designs and delivering exceptional engineering solutions in the field of military projects.

From the intricate design of submarine rescue vessels to the modernization of coast guard boats, and from the half-life modernization of frigates incorporating advanced weapon and electronic systems to the high-performance naval replenishment & command and control ship designs, and also unmanned underwater and surface vehicles,



we have successfully served through significant engineering endeavors that cater to the diverse needs of different countries.





04

POWERSHIP PROJECTS

Construction design, process design, integration of power distribution systems and production level design solutions for sailing power plants.



What is Powership?

Powerships are ship or barge-mounted, fully integrated floating power plants. With wide ranges of installed capacities for utility-size operations and no completion or construction risk, Powerships are ready for power generation within a short period of time. Power is fed directly into the transmission network from the onboard high-voltage substation, not requiring any land acquisition.

What is the role of SEFT in the PowerShip Project?



SEFT is the engineering and design solution partner for Karadeniz Holding starting from conceptual design phase till production design from 100 MW to 450 MW capacity with more than 15 projects.



A NEW PERSPECTIVE OF

INNOVATIVE ENGINEERING



NOTES



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